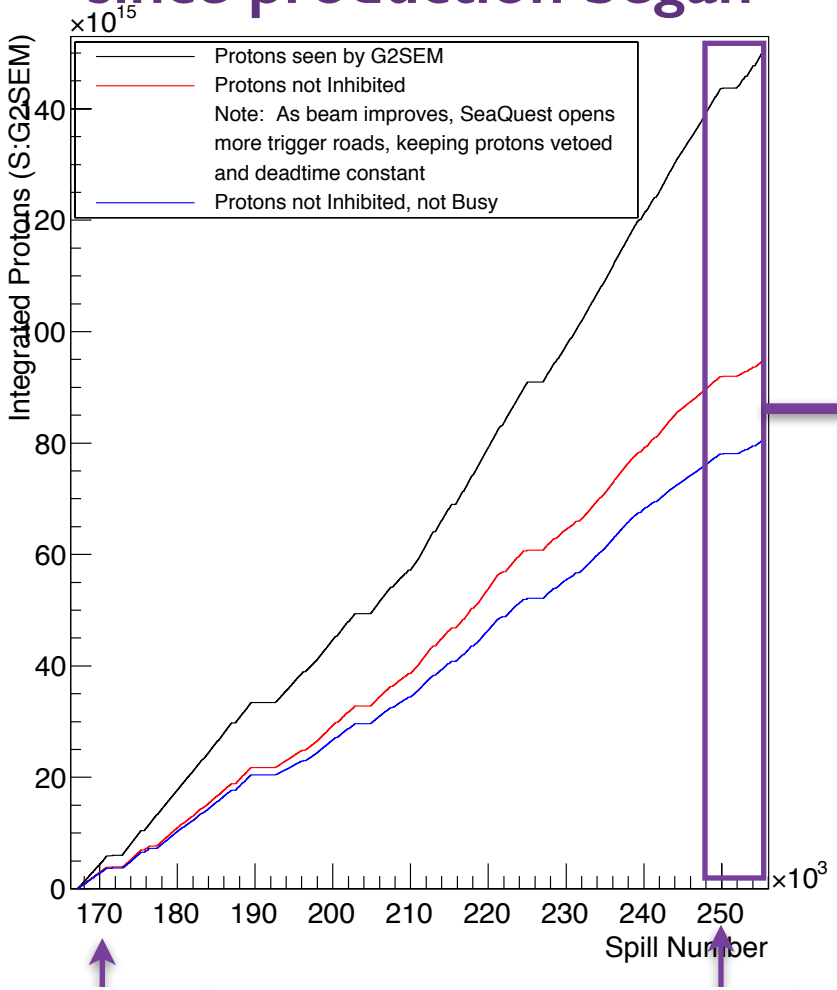
SeaQuest Status:

- All detectors operating well
- Production data-taking continues

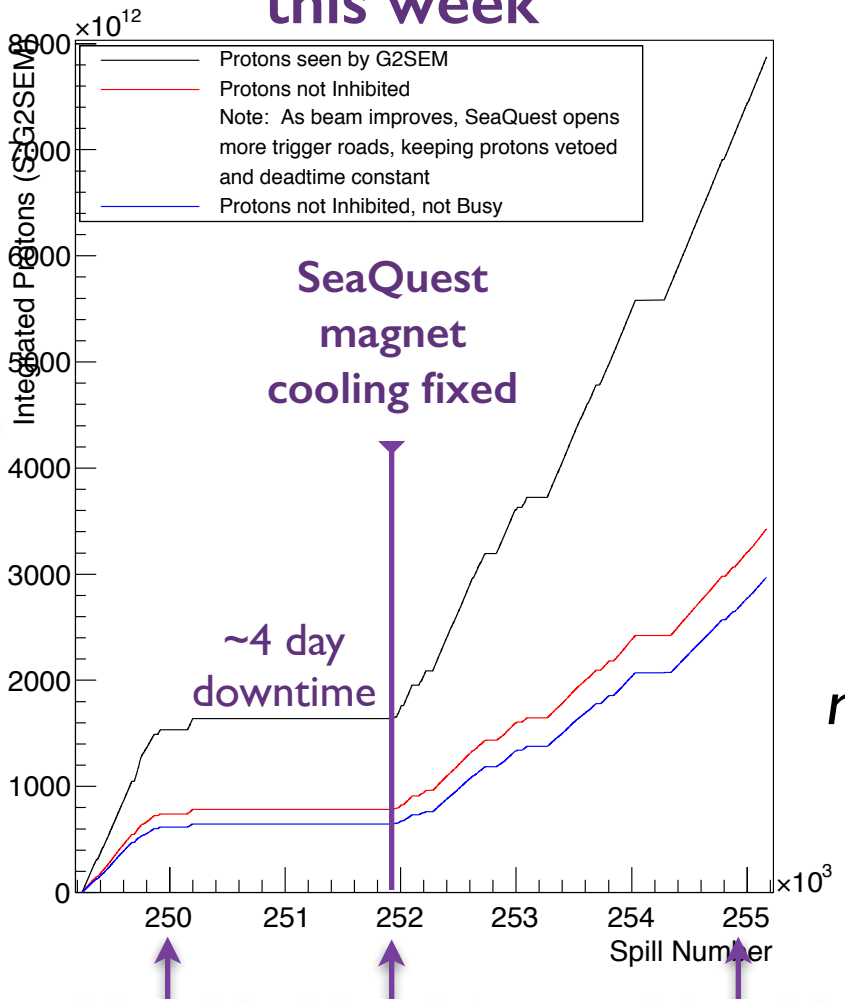
- ~ four day downtime this week for accelerator and SeaQuest magnet work

since production began



March 12 — May 12

this week



May 12 — May 16 — May 18

spill number not linear in time!

Magnet Cooling

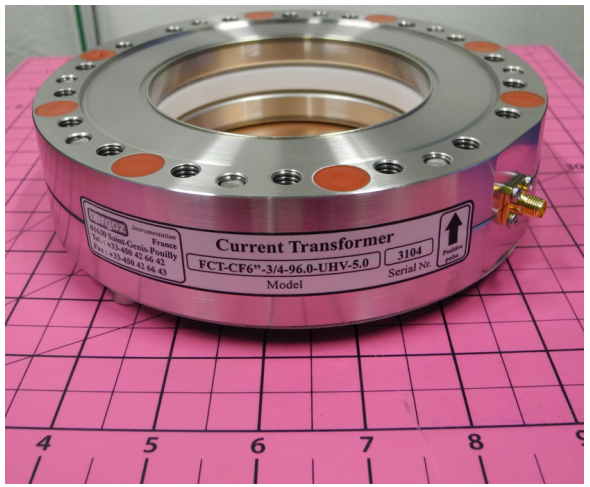
- Added a third cooling tower for SeaQuest magnets during the day on Monday – cooling should be sufficient for the summer

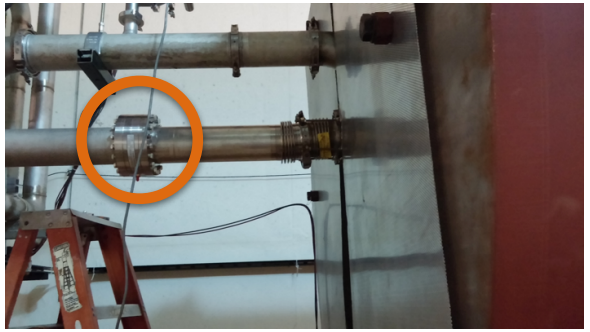
Complications:

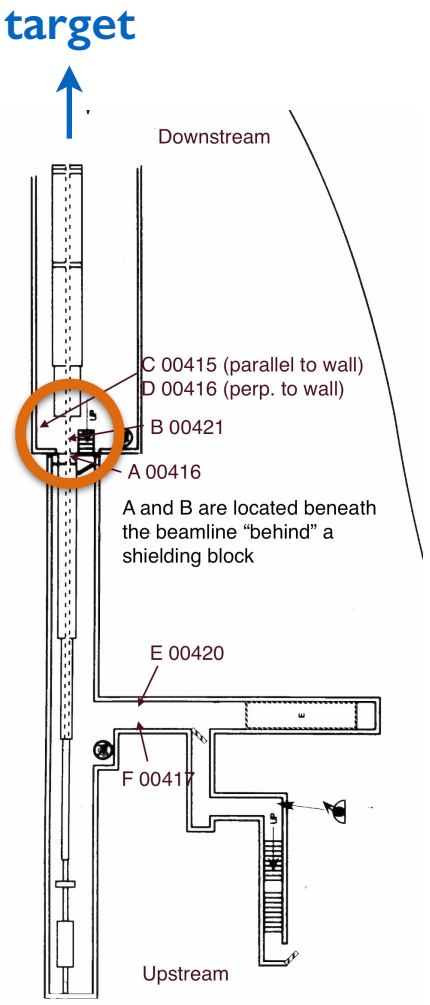
- Power supplies began tripping-off Monday during the day
- Over the course of the week air bled from system and debris removed from filters. Unable to run magnets, trips continued.
- Magnet supply problems resolved Friday (~noon) as experts bled last of air out of the system.

Fast Current Transformer

- Inductive beam intensity monitor installed in NM3 on Thursday. (at orange circle on right)
- Absolutely calibrated - provides precise measurement of integrated intensity
- Will provide calibration for Cherenkov (single RF bucket) monitor
- Dosimeters were placed in various locations NM3 to identify the best place for readout electronics



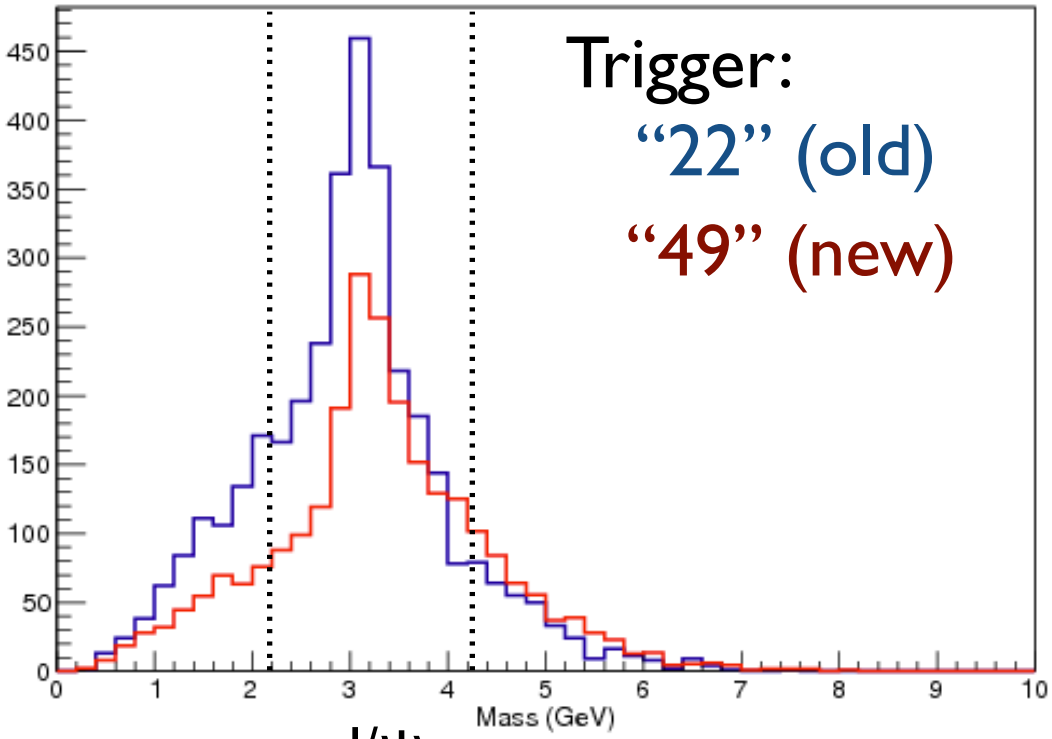




Optimizing the Drell-Yan trigger

- New trigger matrix "49" enhances high-mass signal acceptance and reduce low-mass background
- This became the production trigger when we came back up on Friday 5/16

dimuon pair invariant mass



low-mass background

J/ψ (reference/ calibration)

high-mass signal